

AMENDMENTS TO THE CLAIMS

1-3. (Canceled)

4. (Currently Amended) A method for processing objects within a data processing system in a network, the method comprising:

receiving at a first computing device a first response message that is provided in response to a first request message at a first computing device, wherein the first response message comprises a fragment and a source identifier for a fragment, wherein the first response message is associated with a first cookie having a cookie value, and wherein the first response message is directed to a first client device;

generating a cache identifier for the fragment based on the source identifier and the cookie value;

storing the fragment in a cache at the first computing device using the cache identifier;

receiving a second request message at the first computing device from a second client device, wherein the second request message contains the source identifier for the fragment, and wherein the second request message is associated with a second cookie having the cookie value; and

in response to receiving the second request message, generating the cache identifier for the fragment based on the source identifier and the cookie value.

5. (Original) The method of claim 4 further comprising:

authenticating at a server a first user at the first client device;

in response to authenticating the first user, determining a user category to which the first user belongs;

generating the cookie value to represent the user category; and

sending from the server the first response message and the first cookie.

6. (Currently Amended) The method of claim 5 further comprising:

retrieving the fragment from the cache using the cache identifier;

generating a second response message comprising the fragment[[:]] and sending the second response message to the second client device;

authenticating at a server a second user at the second client device;
in response to authenticating the second user, determining that the second user belongs to
the user category;
generating the cookie value to represent the user category; and
sending from the server a third response message and the second cookie.

7. (Original) The method of claim 4 further comprising:
determining the cookie value based on a user category.

8. (Original) The method of claim 7 further comprising:
determining the user category based on membership of a user of a client device within a
group of users.

9. (Original) The method of claim 8 wherein the group of users comprises a
subset of users in a company, an institution, an association, or an organization.

10. (Original) The method of claim 8 wherein the group of users comprises users
associated with an employee role.

11. (Original) The method of claim 8 wherein the group of users comprises users
associated with a consumer category.

12. (Original) The method of claim 4 wherein the cookie value is encrypted.

13. (Original) The method of claim 4 wherein the source identifier is formatted as
a URI (Uniform Resource Identifier).

14. (Currently Amended) The method of claim 4 wherein the first response message
is an HTTP (Hypertext Transport Protocol) Response message and the first request message is an
HTTP Request message.

15-17. (Canceled)

18. (Currently Amended) An apparatus for processing objects within a data processing system in a network, the apparatus comprising:

means for receiving at a first computing device a first response message that is provided in response to a first request message at a first computing device, wherein the first response message comprises a fragment and a source identifier for a fragment, wherein the first response message is associated with a first cookie having a cookie value, and wherein the first response message is directed to a first client device;

means for generating a cache identifier for the fragment based on the source identifier and the cookie value;

means for storing the fragment in a cache at the first computing device using the cache identifier;

means for receiving a second request message at the first computing device from a second client device, wherein the second request message contains the source identifier for the fragment, and wherein the second request message is associated with a second cookie having the cookie value; and

means for generating the cache identifier for the fragment based on the source identifier and the cookie value in response to receiving the second request message;

~~means for retrieving the fragment from the cache using the cache identifier;~~

~~means for generating a second response message comprising the fragment; and~~

~~means for sending the second response message to the second client device.~~

19. (Original) The apparatus of claim 18 further comprising:

means for authenticating at a server a first user at the first client device;

means for determining a user category to which the first user belongs in response to authenticating the first user;

means for generating the cookie value to represent the user category; and

means for sending from the server the first response message and the first cookie.

20. (Currently Amended) The apparatus of claim 19 further comprising:

means for retrieving the fragment from the cache using the cache identifier;

means for generating a second response message comprising the fragment;
means for sending the second response message to the second client device;
means for authenticating at a server a second user at the second client device;
means for determining that the second user belongs to the user category in response to authenticating the second user;
means for generating the cookie value to represent the user category; and
means for sending from the server a third response message and the second cookie.

21. (Original) The apparatus of claim 18 further comprising:

means for determining the cookie value based on a user category.

22. (Original) The apparatus of claim 21 further comprising:

means for determining the user category based on membership of a user of a client device within a group of users.

23. (Original) The apparatus of claim 22 wherein the group of users comprises a subset of users in a company, an institution, an association, or an organization.

24. (Original) The apparatus of claim 22 wherein the group of users comprises users associated with an employee role.

25. (Original) The apparatus of claim 22 wherein the group of users comprises users associated with a consumer category.

26. (Original) The apparatus of claim 18 wherein the cookie value is encrypted.

27. (Original) The apparatus of claim 18 wherein the source identifier is formatted as a URI (Uniform Resource Identifier).

28. (Currently Amended) The apparatus of claim 18 wherein the first response message is an HTTP (Hypertext Transport Protocol) Response message and the first request message is an HTTP Request message.

29-31. (Canceled)

32. (Currently Amended) A computer program product in a computer readable medium for use within a data processing system in a network for processing objects, the computer program product comprising:

instructions for receiving at a first computing device a first response message that is provided in response to a first request message at a first computing device, wherein the first response message comprises a fragment and a source identifier for a fragment, wherein the first response message is associated with a first cookie having a cookie value, and wherein the first response message is directed to a first client device;

instructions for generating a cache identifier for the fragment based on the source identifier and the cookie value;

instructions for storing the fragment in a cache at the first computing device using the cache identifier;

instructions for receiving a second request message at the first computing device from a second client device, wherein the second request message contains the source identifier for the fragment, and wherein the second request message is associated with a second cookie having the cookie value;

instructions for generating the cache identifier for the fragment based on the source identifier and the cookie value in response to receiving the second request message;

~~instructions for retrieving the fragment from the cache using the cache identifier;~~

~~instructions for generating a second response message comprising the fragment; and~~

~~instructions for sending the second response message to the second client device.~~

33. (Original) The computer program product of claim 32 further comprising:

instructions for authenticating at a server a first user at the first client device;

instructions for determining a user category to which the first user belongs in response to authenticating the first user;

instructions for generating the cookie value to represent the user category; and

instructions for sending from the server the first response message and the first cookie.

34. (Currently Amended) The computer program product of claim 33 further comprising:

instructions for retrieving the fragment from the cache using the cache identifier;

instructions for generating a second response message comprising the fragment;

instructions for sending the second response message to the second client device;

instructions for authenticating at a server a second user at the second client device;

instructions for determining that the second user belongs to the user category in response to authenticating the second user;

instructions for generating the cookie value to represent the user category; and

instructions for sending from the server a third response message and the second cookie.

35. (Original) The computer program product of claim 32 further comprising:
instructions for determining the cookie value based on a user category.

36. (Original) The computer program product of claim 35 further comprising:
instructions for determining the user category based on membership of a user of a client device within a group of users.

37. (Original) The computer program product of claim 36 wherein the group of users comprises a subset of users in a company, an institution, an association, or an organization.

38. (Original) The computer program product of claim 36 wherein the group of users comprises users associated with an employee role.

39. (Original) The computer program product of claim 36 wherein the group of users comprises users associated with a consumer category.

40. (Original) The computer program product of claim 32 wherein the cookie value is encrypted.

41. (Original) The computer program product of claim 32 wherein the source identifier is formatted as a URI (Uniform Resource Identifier).

42. (Currently Amended) The computer program product of claim 32 wherein the first response message is an HTTP (Hypertext Transport Protocol) Response message and the first request message is an HTTP Request message.